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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/540,691	04/14/2006	Jiang Cheng	CN 020038	8972

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PHILIPS INTELLECTUAL PROPERTY & STANDARDS  
P.O. BOX 3001  
BRIARCLIFF MANOR, NY 10510

EXAMINER
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CASCA, FRED A

ART UNIT	PAPER NUMBER
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2617

MAIL DATE	DELIVERY MODE
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10/05/2007

PAPER

**Please find below and/or attached an Office communication concerning this application or proceeding.**

The time period for reply, if any, is set in the attached communication.

<b>Office Action Summary</b>	<b>Application No.</b> 10/540,691	<b>Applicant(s)</b> CHENG ET AL.	
	<b>Examiner</b> Fred A. Casca	<b>Art Unit</b> 2617	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

**Period for Reply**

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

**Status**

- 1) ☐ Responsive to communication(s) filed on \_\_\_\_.
- 2a) ☐ This action is **FINAL**.                      2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

**Disposition of Claims**

- 4) ☒ Claim(s) 1-20 is/are pending in the application.  
     4a) Of the above claim(s) \_\_\_\_ is/are withdrawn from consideration.
- 5) ☐ Claim(s) \_\_\_\_ is/are allowed.
- 6) ☒ Claim(s) 1-20 is/are rejected.
- 7) ☐ Claim(s) \_\_\_\_ is/are objected to.
- 8) ☐ Claim(s) \_\_\_\_ are subject to restriction and/or election requirement.

**Application Papers**

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☒ The drawing(s) filed on 24 June 2005 is/are: a) ☒ accepted or b) ☐ objected to by the Examiner.  
     Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).  
     Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

**Priority under 35 U.S.C. § 119**

- 12) ☒ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).  
     a) ☒ All    b) ☐ Some \* c) ☐ None of:
1. ☒ Certified copies of the priority documents have been received.
2. ☐ Certified copies of the priority documents have been received in Application No. \_\_\_\_.
3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

\* See the attached detailed Office action for a list of the certified copies not received.

**Attachment(s)**

- |  |   |
|--|---|
| 1) <input checked="" type="checkbox"/> Notice of References Cited (PTO-892)                                | 4) <input type="checkbox"/> Interview Summary (PTO-413)<br>Paper No(s)/Mail Date. ____. |
| 2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948)                       | 5) <input type="checkbox"/> Notice of Informal Patent Application                       |
| 3) <input type="checkbox"/> Information Disclosure Statement(s) (PTO/SB/08)<br>Paper No(s)/Mail Date ____. | 6) <input type="checkbox"/> Other: ____.  |

## DETAILED ACTION

### *Claim Rejections - 35 USC § 103*

1. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

2. Claim 1-20 are rejected under 35 U.S.C. 103(a) as being unpatentable over Nikkelen (US 2003/0207688 A1) in view of Kim et al (US 2004/0219916 A1).

Referring to claim 1, Nikkelen discloses a method for RF resources management in multi- standard wireless communication system (abstract, Figures 1-3), comprising:

allocating RF resources to different wireless communication schemes (abstract, figs. 1-3, paragraph 2, note that different system types are allocated frequency bands and each system operates in its given frequency band); and corresponding the different wireless communication schemes which have been allocated said RF resources to different values of said system type identification element (abstract, paragraph 6, "information element", "the node can readily interpret the information element to determine if the UE subscription and/or type of call warrant or permit a subsequent inter-system handover", note that "values" in the claim corresponds to "information element").

Nikkelen does not specifically disclose adding system type identification element in downlink in the format claimed by applicant.

Kim discloses adding system type identification element transmitted in a downlink to notify a mobile terminal about the network type so that the mobile station can determine if the network is a preferred network (paragraphs 15, 22, and 29).

It would have been obvious to one of the ordinary skill in the art at the time of invention to modify the method of Nikkelen by incorporating the teachings of Kim as claimed by applicant, for the purpose of providing the mobile station with information about the available network systems so that the mobile station can choose a preferred network from the set of available networks.

Referring to claim 2, the combinations of Nikkelen/Kim disclose the method of claim 1.

The combo is silent about allocating RF resources within the same frequency band to the different wireless communication schemes, as claimed by applicant.

It would have been an obvious design choice to modify the method of Nikkelen/Kim by setting multiple system types to operate within the same frequency band, since the applicant has not disclosed that having the multiple system types within the same frequency band solves any stated problems or is for any particular purpose and it appears the separate frequency bands assigned for each system type would perform equally well in the distribution of bandwidth resources.

Referring to claim 3, the combinations of Nikkelen/Kim disclose the method of claim 1, and inherently disclose using a set bit to identify the different wireless communication schemes (Kim, paragraphs 15, 22, and 29, note that in digital communication e.g., GSM, any information about system identification is inherently represented by a set of bits).

Referring to claim 4, the combinations of Nikkelen/Kim disclose the method of claim 1, and further disclose downlink includes broadcast channel (Nikkelen, figs. 1-3, paragraph 2).

Referring to claim 5, the combinations of Nikkelen/Kim disclose the method of claim 1, and further disclose said wireless communication schemes include at least two of following: IS-95, CDMA, GSM, TSM, GPRS, TD-SCDMA, W-CDMA, CDMA 2000 and WLAN (Nikkelen, figs. 1-3, paragraphs 2-3).

Referring to claim 6, Nikkelen discloses a method for a mobile terminal accessing wireless communication system (abstract, figures 1-3), comprising:

receiving downlink information transmitted via a downlink (figures 1-3 and paragraph 2, note that any cellular system of paragraph two provides downlink transmission as claimed);

judging whether the mobile terminal supports the wireless communication scheme corresponding to said value of the system type identification element according to said value of the system type identification element contained in said downlink information and the configuration of said mobile terminal (abstract, paragraph 6, "information element", "the node can readily interpret the information element to determine if the UE subscription and/or type of call warrant or permit a subsequent inter-system handover"); and accessing the wireless communication system with the wireless communication scheme, if the mobile terminal supports the wireless communication scheme corresponding to said value of the system type identification element (abstract, paragraphs 6-9, "inter-system handover", "information element").

Nikkelen does not specifically disclose acquiring the value of the system type identification element in downlink information as claimed by applicant.

Kim discloses acquiring the value of the system type identification element in downlink information (paragraphs 15, 22, and 29).

It would have been obvious to one of the ordinary skill in the art at the time of invention to modify the method of Nikkelen by incorporating the teachings of Kim as claimed by applicant, for the purpose of providing the mobile station with information about the available network systems so that the mobile station can choose a preferred network from the set of available networks.

Referring to claim 7, the combinations of Nikkelen/Kim disclose the method of claim 6, and inherently disclose when the status of the mobile terminal is power-on, said value of the system type identification element is the value of system type identification element of the current cell and said wireless communication scheme is the wireless communication scheme employed by the current cell (paragraphs 6-9).

Referring to claim 8, the combinations of Nikkelen/Kim disclose the method of claim 6, wherein when the status of the mobile terminal is cell handover, said value of the system type identification element is the value of system type identification element of a adjacent cell and said wireless communication scheme is the wireless communication scheme employed by the adjacent cell (paragraphs 6-9).

Referring to claim 9, the combinations of Nikkelen/Kim disclose the method of claim 8, wherein if the mobile terminal cannot access the wireless communication scheme corresponding

to the value of the system type identification element of the adjacent cell, a cell handover will not be executed (abstract and paragraphs 6-9).

Referring to claim 10, the combinations of Nikkelen/Kim disclose the method of claim 6, wherein said downlink includes broadcast channel (paragraphs 2 and 6-9).

Referring to claims 11-15, claims 11-15 define a device for mobile terminals reciting features analogous to the features of methods of claims 6-10 (as rejected above). Thus, the combinations of Nikkelen/Kim disclose all elements of 11-15 (see the rejection of claims 6-10 above).

Referring to claims 16-20, claims 16-20 define a mobile terminal reciting features analogous to the features of methods of claims 6-10 (as rejected above). Thus, the combinations of Nikkelen/Kim disclose all elements of 16-20 (see the rejection of claims 6-10 above).

### ***Conclusion***

3. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Fred A. Casca whose telephone number is (571) 272-7918. The examiner can normally be reached on Monday through Friday from 9 to 5.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Lester Kincaid, can be reached at (571) 272-7922. The fax number for the organization where this application or proceeding is assigned is (571) 273-8300.

Art Unit: 2617

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).



**LESTER G. KINCAID**  
**SUPERVISORY PRIMARY EXAMINER**